

Author Index to Volume 171

- Aagaard, O.M., see R.A.J. Janssen 171 (1990) 127
- Abdel-Raouf, M.A., Investigation of the band structures of polyacetylene-poly(vinyl fluoride) and polyacetylene-polytetrafluoroethylene copolymers 171 (1990) 525
- Akiyama, Y., see K. Tanaka 171 (1990) 175
- Anet, F.A.L., D.J. O'Leary, C.G. Wade and R.D. Johnson, NMR relaxation by the anti-symmetric component of the shielding tensor: a longer transverse than longitudinal relaxation time 171 (1990) 401
- Anisimov, O.A., see B.M. Tadjikov 171 (1990) 413
- Apkarian, V.A., see H. Kunttu 171 (1990) 423
- Asahi, T., N. Mataga, Y. Takahashi and T. Miyashi, Energy gap dependence of the charge recombination process of ion pairs produced by excitation of 2,6,9,10-tetracyanoanthracene-methylsubstituted benzene charge transfer complexes in acetonitrile 171 (1990) 309
- Azria, R., L. Parenteau and L. Sanche, Post-dissociation interactions in ESD: the $^{18}\text{O}^-$ - C^{16}O surface reactions induced by 4–10 eV electrons 171 (1990) 229
- Balasubramanian, K., Electronic structure of $(\text{GaAs})_2$ 171 (1990) 58
- Bandy, R.E., see J.R. Gord 171 (1990) 443
- Bardez, E., B. Larrey, X.X. Zhu and B. Valeur, Counterion control of reactivity in anionic reverse micellar aggregates 171 (1990) 362
- Bauschlicher Jr., C.W., S.R. Langhoff and P.R. Taylor, Theoretical study of the C–H bond dissociation energy of acetylene 171 (1990) 42
- Beitz, J.V., see G.K. Liu 171 (1990) 335
- Benderskii, V.A., V.I. Goldanskii and D.E. Makarov, The theory of cryochemical reaction rates in the Leggett formalism 171 (1990) 91
- Bi, X.-X., see H.-Y. Zhang 171 (1990) 119
- Bilmes, S.A., SERS of pyridine adsorbed on rhodium electrodes 171 (1990) 141
- Bishea, G.A. and M.D. Morse, The $a^3\Sigma_{1(u)}^+ \leftarrow X^1\Sigma_g^+$ band systems of CuAu and Au_2 171 (1990) 430
- Blaisten-Barojas, E. and M.R. Nyden, Molecular dynamics study of the depolymerization reaction in simple polymers 171 (1990) 499
- Bowker, M., see P. Pudney 171 (1990) 373
- Bowman, R.M., see J.J. Gerdy 171 (1990) 1
- Braun, D., E. Gallhuber and H. Yersin, Zeeman splittings of the two lowest excited states of $[\text{Ru}(\text{bpy})_3](\text{PF}_6)_2$ 171 (1990) 122
- Brühlmann, U., see H.U. Suter 171 (1990) 63
- Buck, H.M., see R.A.J. Janssen 171 (1990) 127
- Calvo Hernández, A., see J.R. Pérez Cruz 171 (1990) 87
- Caminati, W. and S. Di Bernardo, Microwave spectrum of 2,6-lutidine: barrier to internal rotation from the inertial defect of the AA state 171 (1990) 39
- Chakraborty, T. and M. Chowdhury, Fluorescence excitation spectrum of jet-cooled dihydroanthracene 171 (1990) 25

- Champion, P.M., see Y. Gu 171 (1990) 254
- Chartier, A., J. Georges and J.M. Mermet, Limitation of the thermal-lens method in fluorescence quantum-yield measurements 171 (1990) 347
- Chowdhury, M., see T. Chakraborty 171 (1990) 25
- Coffey, W.T., On the direct derivation of Brinkman's hierarchy of differential-difference equations for ensemble averages from the Langevin equation 171 (1990) 485
- Collins, C.L., R.D. Davy and H.F. Schaefer III, Cyclopentadienylidene in interstellar space? 171 (1990) 259
- Daniel, C. and M. Dupuis, Nonlinear optical properties of organic solids: ab initio polarizability and hyperpolarizabilities of nitroaniline derivatives 171 (1990) 209
- Dantus, M., see J.J. Gerdy 171 (1990) 1
- Dasannacharya, B.A., see C. Manohar 171 (1990) 451
- Davy, R.D., see C.L. Collins 171 (1990) 259
- Del Mistro, G. and A.J. Stace, Solid-like and liquid-like behaviour in small benzene clusters. A molecular dynamics simulation of $(C_6H_6)_4$ 171 (1990) 381
- Devolder, P., see A. Goumri 171 (1990) 303
- Di Bernardo, S., see W. Caminati 171 (1990) 39
- Dodu, M., see M.S. Mikhelashvili 171 (1990) 575
- Dong, R.Y. and G.M. Richards, Modeling of correlated internal motions and deuteron spin relaxation in liquid crystals 171 (1990) 389
- Drewello, T. and H. Schwarz, Generation and characterization of stable monomeric transition-metal acetylides MCCH ($M=Fe, Co, Ni$) by neutralization-reionization mass spectrometry 171 (1990) 5
- Dubois, L.H., see B.J. Hinch 171 (1990) 131
- Dupuis, M., see S.P. Karna 171 (1990) 201
- Dupuis, M., see C. Daniel 171 (1990) 209
- Eckert-Maksić, M., M. Hodošek, D. Kovaček, Z.B. Maksić and K. Poljanec, Strong Mills-Nixon effect in biphenylene 171 (1990) 49
- Eisenthal, K.B., see X. Zhao 171 (1990) 558
- Elschner, A., L.R. Narasimhan and M.D. Fayer, High temperature optical dephasing mechanism for dye molecules in PMMA glass 171 (1990) 19
- Fayer, M.D., see A. Elschner 171 (1990) 19
- Feitelson, J., see M.S. Mikhelashvili 171 (1990) 575
- Fidder, H., J. Knoester and D.A. Wiersma, Superradiant emission and optical dephasing in J-aggregates 171 (1990) 529
- Fowler, P.W., D_2 dipole dispersion coefficients 171 (1990) 277
- Fritzsche, S., R. Haberlandt, J. Kaerger, H. Pfeifer and M. Wolfsberg, Molecular-dynamics consideration of the mutual thermalization of guest molecules in zeolites 171 (1990) 109
- Fujii, M., see Y. Okuzawa 171 (1990) 341
- Gallhuber, E., see D. Braun 171 (1990) 122
- Garrett, A.W., see J.R. Gord 171 (1990) 443
- Georges, J., see A. Chartier 171 (1990) 347
- Gerdy, J.J., M. Dantus, R.M. Bowman and A.H. Zewail, Femtosecond selective control of wave packet population 171 (1990) 1

- Godzik, A., An estimation of energy parameters for the soliton movement in hydrogen-bonded chains 171 (1990) 217
- Goldanskii, V.I., see V.A. Benderskii 171 (1990) 91
- Goldfarb, D. and K. Zukerman, Characterization of Cu^{2+} sites in zeolites NaX and KX by ^{27}Al electron spin echo envelope modulation 171 (1990) 167
- Gord, J.R., A.W. Garrett, R.E. Bandy and T.S. Zwier, REMPI fragmentation as a probe of hydrogen bonding in aromatic-X clusters 171 (1990) 443
- Goumri, A., J.-F. Pauwels, J.-P. Sawerysyn and P. Devolder, Reaction rates at 297 ± 3 K with O_2 , NO and NO_2 of the *p*-fluorobenzyl and the *m*-fluorobenzyl radicals by discharge flow/laser-induced fluorescence 171 (1990) 303
- Goyal, P.S., see C. Manohar 171 (1990) 451
- Gritsenko, O.V., see O.L. Malkina 171 (1990) 191
- Gruszecki, W.I., B. Zelent and R.M. Leblanc, Fluorescence of zeaxanthin and violaxanthin in aggregated forms 171 (1990) 563
- Gu, Y. and P.M. Champion, Resonance Raman scattering as a probe of electron-nuclear coupling: comparison of the relative intensity and absolute cross-section transform methods 171 (1990) 254
- Haberlandt, R., see S. Fritzsche 171 (1990) 109
- Hack, W. and A. Rössing, The elementary reaction of $\text{O}(^3\text{P})$ atoms with $\text{Cr}(\text{CO})_6$ in the gas phase 171 (1990) 547
- Hammerich, A.D., R. Kosloff and M.A. Ratner, Quantum mechanical reactive scattering by a multiconfigurational time-dependent self-consistent field (MCTDSCF) approach 171 (1990) 97
- Hannon, J.B., see K.B. Ray 171 (1990) 469
- Hasegawa, T., K. Ishikawa, T. Kanetake, T. Koda, K. Takeda, H. Kobayashi and K. Kubodera, Excitonic resonant effect in the third-order nonlinear optical properties of blue- and red-form polydiacetylene films 171 (1990) 239
- Hayden, G.W., see Z.G. Soos 171 (1990) 14
- He, X., see H.-Y. Zhang 171 (1990) 119
- Herrero, C.P., Configurational entropy of the Si, Al distribution in zeolites 171 (1990) 369
- Higashide, H., T. Kaya, M. Kobayashi, H. Shinohara and H. Sato, Reactions of benzene clusters with metal ions as studied by the laser ablation-molecular beam method: observation of clustered complex ions $\text{M}(\text{C}_6\text{H}_6)_n^+$ ($n \geq 2$) and fragment complex ions $\text{M}(\text{C}_6\text{H}_6)(\text{C}_x\text{H}_y)^+$ with $X \leq 6$ and $Y \leq 4$ 171 (1990) 297
- Hillig II, K.W., M.S. LaBarge, A. Taleb-Bendiab and R.L. Kuczkowski, The microwave spectrum and structure of the neon-phosphorus trifluoride complex 171 (1990) 542
- Hinch, B.J. and L.H. Dubois, First-order corrections in modulated molecular beam desorption experiments 171 (1990) 131
- Hirokawa, J., see T. Nagata 171 (1990) 433
- Hirota, E., see K. Tanaka 171 (1990) 175
- Hirsch, J.E., Empirical estimate of a Coulomb matrix element of relevance to superconductivity 171 (1990) 161
- Hodošček, M., see M. Eckert-Maksić 171 (1990) 49
- Homer, M.L., see E.C. Honea 171 (1990) 147
- Honea, E.C., M.L. Homer, J.L. Persson and R.L. Whetten, Generation and photoionization of cold Na_n clusters; n to 200 171 (1990) 147
- Huang, M.-B., S. Lunell and L. Karlsson, Trichlorofluoromethane and its ionized species: a theoretical investigation 171 (1990) 265

Huang, S.Y., see Z.Z. Yang	171 (1990) 9
Huber, J.R., see H.U. Suter	171 (1990) 63
Iannone, M.A. and G.W. Scott, Low temperature emission spectra of trapped tetracene pairs from ditetracene	171 (1990) 569
Ikegami, T., see T. Nagata	171 (1990) 433
Inokuchi, H., see H. Yamamoto	171 (1990) 181
Inouye, K., see H. Nakatsuka	171 (1990) 245
Ishikawa, K., see T. Hasegawa	171 (1990) 239
Ito, M., see Y. Okuzawa	171 (1990) 341
Iwata, S., see T. Nagata	171 (1990) 433
Jacques, P., A study of synergistic effects in CH ₃ CN/2-propanol mixtures	171 (1990) 353
Jain, D.C., see A.-M. Sapse	171 (1990) 480
Janssen, R.A.J., O.M. Aagaard, M.J. van der Woerd and H.M. Buck, The nature of three-electron P-S bonds studied by ESR	171 (1990) 127
Jena, P., S.N. Khanna and B.K. Rao, Reaction-induced excitations of clusters	171 (1990) 439
Johnson, R.D., see F.A.L. Anet	171 (1990) 401
Jordan, K.D., see K.K. Sunil	171 (1990) 185
Jug, K. and A. Poredda, Valence partitioning for diradicals and zwitterions	171 (1990) 394
Kaerger, J., see S. Fritzsche	171 (1990) 109
Kanetake, T., see T. Hasegawa	171 (1990) 239
Karlsson, L., see M.-B. Huang	171 (1990) 265
Karna, S.P. and M. Dupuis, Frequency-dependent hyperpolarizabilities of haloforms from ab initio SCF calculations	171 (1990) 201
Kashiwagi, A., see S. Kurita	171 (1990) 553
Kaya, T., see H. Higashide	171 (1990) 297
Kelkar, V.K., see C. Manohar	171 (1990) 451
Khanna, S.N., see P. Jena	171 (1990) 439
Klekamp, A. and E. Umbach, Photon-induced dissociation of physisorbed SF ₆ on Ni(111)	171 (1990) 233
Knoester, J., see H. Fidler	171 (1990) 529
Kobayashi, H., see T. Hasegawa	171 (1990) 239
Kobayashi, M., see H. Higashide	171 (1990) 297
Koda, T., see T. Hasegawa	171 (1990) 239
Kondow, T., see T. Nagata	171 (1990) 433
Konovalov, V.V. and A.M. Raitsimring, Photoelectron injection and additional photochemical processes on irradiation of the mercury-water interphase at 193 nm	171 (1990) 326
Kosloff, R., see A.D. Hammerich	171 (1990) 97
Kovačec, D., see M. Eckert-Maksić	171 (1990) 49
Kubo, A., see S. Sekine	171 (1990) 155
Kubodera, K., see T. Hasegawa	171 (1990) 239
Kuczkowski, R.L., see K.W. Hillig II	171 (1990) 542
Kulbida, A., Thermodynamic characteristics of excited electronic states	171 (1990) 80
Kunttu, H. and V.A. Apkarian, Photodissociation of F ₂ in crystalline krypton: effect of molecule-lattice prealignment	171 (1990) 423
Kurita, S., A. Kashiwagi, Y. Kurita, H. Miyasaka and N. Mataga, Picosecond laser photolysis studies on the photochromism of a furylfulgide	171 (1990) 553

Kurita, Y., see S. Kurita	171 (1990) 553
Kuwata, K., see T. Matsumoto	171 (1990) 314
LaBarge, M.S., see K.W. Hillig II	171 (1990) 542
Langhoff, S.R., see C.W. Bauschlicher Jr.	171 (1990) 42
Larrey, B., see E. Bardez	171 (1990) 362
Leblanc, R.M., see W.I. Gruszecki	171 (1990) 563
Lee, S.-L. and Y.-N. Yeh, Topological analysis of some special classes of graphs. Hypercubes	171 (1990) 385
Lee, Y.T., see Z.Z. Yang	171 (1990) 9
Lefebvre-Brion, H., Rotational-state distribution in HBr^+ from Rydberg-state photoionization	171 (1990) 377
Lester Jr., W.A., see Z.Z. Yang	171 (1990) 9
Levine, R.D., see A. Vertes	171 (1990) 284
Lin, J.-S. and J.V. Ortiz, Electron propagator calculations on the ionization energies of CrH^- , MnH^- and FeH^-	171 (1990) 197
Liu, G.K. and J.V. Beitz, Photoinduced site distortion and persistent spectral hole burning in $\text{Cm}^{4+}:\text{CeF}_4$	171 (1990) 335
Luis, D., see J.R. Pérez Cruz	171 (1990) 87
Lukzen, N.N., see B.M. Tadjikov	171 (1990) 413
Lunell, S., see M.-B. Huang	171 (1990) 265
Makarov, D.E., see V.A. Benderskii	171 (1990) 91
Maksić, Z.B., see M. Eckert-Maksić	171 (1990) 49
Malkina, O.L., O.V. Gritsenko and G.M. Zhidomirov, A new approximation for Slater's averaged Hartree-Fock exchange potential	171 (1990) 191
Manohar, C., V.K. Kelkar, B.K. Mishra, K.S. Rao, P.S. Goyal and B.A. Dasannacharya, Tuning intermolecular potentials through adsorbed molecules: van der Waals and Coulombic contributions	171 (1990) 451
Masaki, A., see H. Umemoto	171 (1990) 357
Mataga, N., see T. Asahi	171 (1990) 309
Mataga, N., see S. Kurita	171 (1990) 553
Matsumoto, T. and K. Kuwata, EPR spectroscopy of molecular oxygen in supersonic nozzle beam	171 (1990) 314
McWilliams, P.C.M., see Z.G. Soos	171 (1990) 14
Mermet, J.M., see A. Chartier	171 (1990) 347
Mikhelashvili, M.S., J. Feitelson and M. Dodu, Time dependence of donor-acceptor electron transfer. Solid solution	171 (1990) 575
Miller, W.H., see M. Moreno	171 (1990) 475
Mishra, B.K., see C. Manohar	171 (1990) 451
Miyasaka, H., see S. Kurita	171 (1990) 553
Miyashi, T., see T. Asahi	171 (1990) 309
Molin, Yu.N., see B.M. Tadjikov	171 (1990) 413
Møller, P.J., see M.-C. Wu	171 (1990) 136
Moreno, M. and W.H. Miller, On the tautomerization reaction 2-pyridone \leftrightarrow 2-hydroxypyridine: an ab initio study	171 (1990) 475
Morse, M.D., see G.A. Bishea	171 (1990) 430
Moss, R.E., Calculated transition frequencies for microwave and far-infrared electronic transitions of the hydrogen molecular ion	171 (1990) 513

- Nagashima, U., see H. Yamamoto 171 (1990) 181
- Nagata, T., J. Hirokawa, T. Ikegami, T. Kondow and S. Iwata, Photodissociation of Ar_3^+ cluster ion 171 (1990) 433
- Nakatsuka, H., K. Inouye, S. Uemura and R. Yano, Observation of the time evolution of persistent holes in an organic amorphous system by using a diode laser 171 (1990) 245
- Narasimhan, L.R., see A. Elschner 171 (1990) 19
- Nishigori, T., see B. Shizgal 171 (1990) 493
- Nishimura, Y., see H. Sekiya 171 (1990) 291
- Nunome, K., see M. Okazaki 171 (1990) 537
- Nyden, M.R., see E. Blaisten-Barojas 171 (1990) 499
- Ohnuma, T., see H. Umemoto 171 (1990) 357
- Okazaki, M., Y. Tai, K. Nunome and K. Toriyama, Excimer formation of pyrene as a probe to investigate the recombination of geminate pairs: effect of multicomponent recombination on Stern-Volmer plot 171 (1990) 537
- Okuzawa, Y., M. Fujii and M. Ito, Direct observation of second excited $^{1,3}(n,\pi^*)$ states of pyrazine by UV-IR double resonance dip spectroscopy 171 (1990) 341
- O'Leary, D.J., see F.A.L. Anet 171 (1990) 401
- Olsen, J., see D. Sundholm 171 (1990) 53
- Ortiz, J.V., see J.-S. Lin 171 (1990) 197
- Parenteau, L., see R. Azria 171 (1990) 229
- Pauwels, J.-F., see A. Goumri 171 (1990) 303
- Pérez Cruz, J.R., D. Luis, S. Velasco and A. Calvo Hernández, Comparison of observed and calculated vibration-rotation (0-1) band shapes of HCl in liquid Xe 171 (1990) 87
- Persson, J.L., see E.C. Honea 171 (1990) 147
- Pfeifer, H., see S. Fritzsche 171 (1990) 109
- Plummer, E.W., see K.B. Ray 171 (1990) 469
- Polavarapu, P.L., An approximate relation for paramagnetic magnetizability emerging from the sum rules for Cartesian magnetic dipole moment derivatives 171 (1990) 271
- Poljanec, K., see M. Eckert-Maksić 171 (1990) 49
- Poredda, A., see K. Jug 171 (1990) 394
- Pudney, P. and M. Bowker, Activated dissociation of oxygen on Cu(110) 171 (1990) 373
- Quack, M. and M.A. Suhm, Observation and assignment of the hydrogen bond exchange disrotatory in-plane bending vibration ν_5 in $(\text{HF})_2$ 171 (1990) 517
- Raff, L.M., see H.W. Schranz 171 (1990) 68
- Raghavachari, K., Theoretical study of C_3 , C_3^- and C_3^+ 171 (1990) 249
- Raitsimring, A.M., see V.V. Konovalov 171 (1990) 326
- Rao, B.K., see P. Jena 171 (1990) 439
- Rao, K.S., see C. Manohar 171 (1990) 451
- Ratner, M.A., see A.D. Hammerich 171 (1990) 97
- Ray, K.B., J.B. Hannon and E.W. Plummer, An experimental study of hydrogen adsorption on beryllium 171 (1990) 469
- Rhodes, C.J. and E. Roduner, Muonium atom addition to hexamethyl (Dewar) benzene: Formation of "Dewar" cyclohexadienyl radicals 171 (1990) 457

- Richards, G.M., see R.Y. Dong 171 (1990) 389
- Richert, R., Solvation dynamics in supercooled liquids: the quinoxaline triplet state in 2-MTHF at the glass transition 171 (1990) 222
- Roduner, E., see C.J. Rhodes 171 (1990) 457
- Rössing, A., see W. Hack 171 (1990) 547
- Rubahn, H.-G. and N. Sathyamurthy, Quasiclassical trajectory calculations of integral cross sections for highly vibrationally excited $\text{Li}_2\text{-He, Kr}$ systems 171 (1990) 506
- Sagdeev, R.Z., see A.V. Yurkovskaya 171 (1990) 406
- Sanche, L., see R. Azria 171 (1990) 229
- Sano, H., see S. Sekine 171 (1990) 155
- Sapse, A.-M. and D.C. Jain, Ab initio studies of some negative complexes of lithium compounds 171 (1990) 480
- Sathyamurthy, N., see H.-G. Rubahn 171 (1990) 506
- Sato, H., see H. Higashide 171 (1990) 297
- Sato, N., see H. Yamamoto 171 (1990) 181
- Sawersyn, J.-P., see A. Goumri 171 (1990) 303
- Schaefer III, H.F., see C.L. Collins 171 (1990) 259
- Schranz, H.W., L.M. Raff and D.L. Thompson, Correspondence of canonical and micro-canonical rate constants using variational transition state theory for simple bond fissions 171 (1990) 68
- Schwarz, H., see T. Drewello 171 (1990) 5
- Scott, G.W., see M.A. Iannone 171 (1990) 569
- Sekine, S., A. Kubo and H. Sano, Motional narrowing of ^1H magic-angle-spinning nuclear magnetic resonance spectra 171 (1990) 155
- Sekiya, H. and Y. Nishimura, Laser-induced fluorescence study of the reactions of $\text{Ar}(^3\text{P}_{2,0})$ with CH_3X ($\text{X}=\text{H}, \text{Cl}, \text{Br}, \text{I}$), C_2H_6 , SiH_4 , and Si_2H_6 171 (1990) 291
- Sheats, J.R., Photochemistry from highly excited triplet states of substituted anthracenes in thin polymer films 171 (1990) 319
- Shinohara, H., see H. Higashide 171 (1990) 297
- Shirley, D.A., see Z.Z. Yang 171 (1990) 9
- Shizgal, B. and T. Nishigori, A uniform WKB approach to electron thermalization in gases 171 (1990) 493
- Soos, Z.G., P.C.M. McWilliams and G.W. Hayden, Coulomb correlations and two-photon spectra of conjugated polymers 171 (1990) 14
- Stace, A.J., see G. Del Mistro 171 (1990) 381
- Subrahmanyam, S., see X. Zhao 171 (1990) 558
- Suhm, M.A., see M. Quack 171 (1990) 517
- Sundholm, D. and J. Olsen, Large MCHF calculations on the electron affinity of boron 171 (1990) 53
- Sunil, K.K., J.H. Yates and K.D. Jordan, Theoretical study of the isomerization of cyanogen 171 (1990) 185
- Suter, H.U., U. Brühlmann and J.R. Huber, Photodissociation of CH_3ONO by a direct and indirect mechanism 171 (1990) 63
- Tadjikov, B.M., N.N. Lukzen, O.A. Anisimov and Yu.N. Molin, Positive hole hopping in glassy alkanes at 77 K: observation by the OD ESR technique 171 (1990) 413
- Tai, Y., see M. Okazaki 171 (1990) 537
- Takahashi, Y., see T. Asahi 171 (1990) 309
- Takeda, K., see T. Hasegawa 171 (1990) 239
- Taleb-Bendiab, A., see K.W. Hillig II 171 (1990) 542

- Tanaka, K., Y. Akiyama, T. Tanaka, C. Yamada and E. Hirota, Millimeter-wave spectroscopy of the GeF^+ ion 171 (1990) 175
- Tanaka, T., see K. Tanaka 171 (1990) 175
- Tang, S.H., see H.-Y. Zhang 171 (1990) 119
- Taylor, P.R., see C.W. Bauschlicher Jr. 171 (1990) 42
- Thompson, D.L., see H.W. Schranz 171 (1990) 68
- Topp, M.R., see S.A. Wittmeyer 171 (1990) 29
- Toriyama, K., see M. Okazaki 171 (1990) 537
- Tsentelovich, Yu.P., see A.V. Yurkovskaya 171 (1990) 406
- Uemura, S., see H. Nakatsuka 171 (1990) 245
- Umbach, E., see A. Klekamp 171 (1990) 233
- Umemoto, H., T. Ohnuma and A. Masaki, The intramultiplet relaxation of $\text{Cd}(5^3\text{P}_2)$ by He 171 (1990) 357
- Valeur, B., see E. Bardez 171 (1990) 362
- Vandervell, H.D. and K.C. Waugh, On the role of promoters in promoted iron catalysts used in the industrial synthesis of ammonia 171 (1990) 462
- Van der Woerd, M.J., see R.A.J. Janssen 171 (1990) 127
- Velasco, S., see J.R. Pérez Cruz 171 (1990) 87
- Vertes, A. and R.D. Levine, Sublimation versus fragmentation in matrix-assisted laser desorption 171 (1990) 284
- Wade, C.G., see F.A.L. Anet 171 (1990) 401
- Wang, L.S., see Z.Z. Yang 171 (1990) 9
- Waugh, K.C., see H.D. Vandervell 171 (1990) 462
- Weiss, S., Computer simulation of FIR absorption in pure rare gases 171 (1990) 77
- Whetten, R.L., see E.C. Honea 171 (1990) 147
- Wicholas, M. and C. Zanchini, Single-crystal EPR spectra of the high-spin $[\text{Co}(\text{TMC})(\text{CH}_3\text{CN})](\text{ClO}_4)_2$ complex 171 (1990) 114
- Wiersma, D.A., see H. Fidder 171 (1990) 529
- Wittmeyer, S.A. and M.R. Topp, Vibronic hole-burning spectroscopy of perylene/ CO_2 clusters: intermolecular coupling effects 171 (1990) 29
- Wolfsberg, M., see S. Fritzsche 171 (1990) 109
- Wu, M.-C. and P.J. Møller, UPS and HREELS studies of early stages of adsorption of CuCl on $\text{TiO}_2(110)$ 171 (1990) 136
- Yamada, C., see K. Tanaka 171 (1990) 175
- Yamamoto, H., U. Nagashima, H. Inokuchi and N. Sato, Ultraviolet photoelectron spectroscopy of N,N -diphenyl- N' -picrylhydrazine 171 (1990) 181
- Yang, Z.Z., L.S. Wang, Y.T. Lee, D.A. Shirley, S.Y. Huang and W.A. Lester Jr., Molecular beam photoelectron spectroscopy of allene 171 (1990) 9
- Yano, R., see H. Nakatsuka 171 (1990) 245
- Yates, J.H., see K.K. Sunil 171 (1990) 185
- Yeh, Y.-N., see S.-L. Lee 171 (1990) 385
- Yersin, H., see D. Braun 171 (1990) 122
- Yurkovskaya, A.V., Yu.P. Tsentelovich and R.Z. Sagdeev, Cross-relaxation in nuclear polarization. A flash-CIDNP study 171 (1990) 406

Zanchini, C., see M. Wicholas	171 (1990) 114
Zelent, B., see W.I. Gruszecki	171 (1990) 563
Zewail, A.H., see J.J. Gerdy	171 (1990) 1
Zhang, H.-Y., X. He, S.H. Tang and X.-X. Bi, Two-photon transitions from 3H_6 to 1I_6 of Tm^{3+} in LaF_3 single crystal	171 (1990) 119
Zhao, X., S. Subrahmanyam and K.B. Eisenthal, Determination of pK_a at the air/water interface by second harmonic generation	171 (1990) 558
Zhidomirov, G.M., see O.L. Malkina	171 (1990) 191
Zhu, X.X., see E. Bardez	171 (1990) 362
Zukerman, K., see D. Goldfarb	171 (1990) 167
Zwier, T.S., see J.R. Gord	171 (1990) 443